USGS science for a changing world

Earthquake Shaking — Green Alert

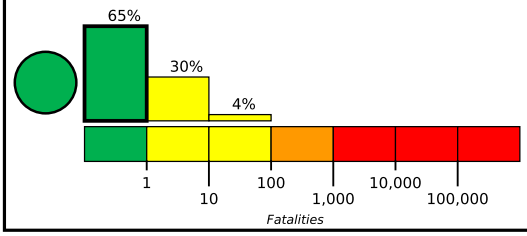
GSN · USAID FROM THE AMERICAN PEOPLE · ANSS

M 6.6, 13 km E of San Pedro, Philippines

Origin Time: 2020-08-18 00:03:48 UTC (Tue 08:03:48 local)
Location: 12.0205° N 124.1231° E Depth: 10.0 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

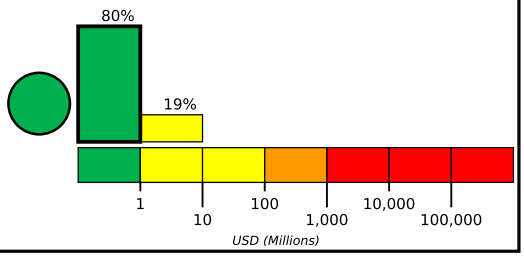
PAGER Version 4
Created: 3 hours, 38 minutes after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

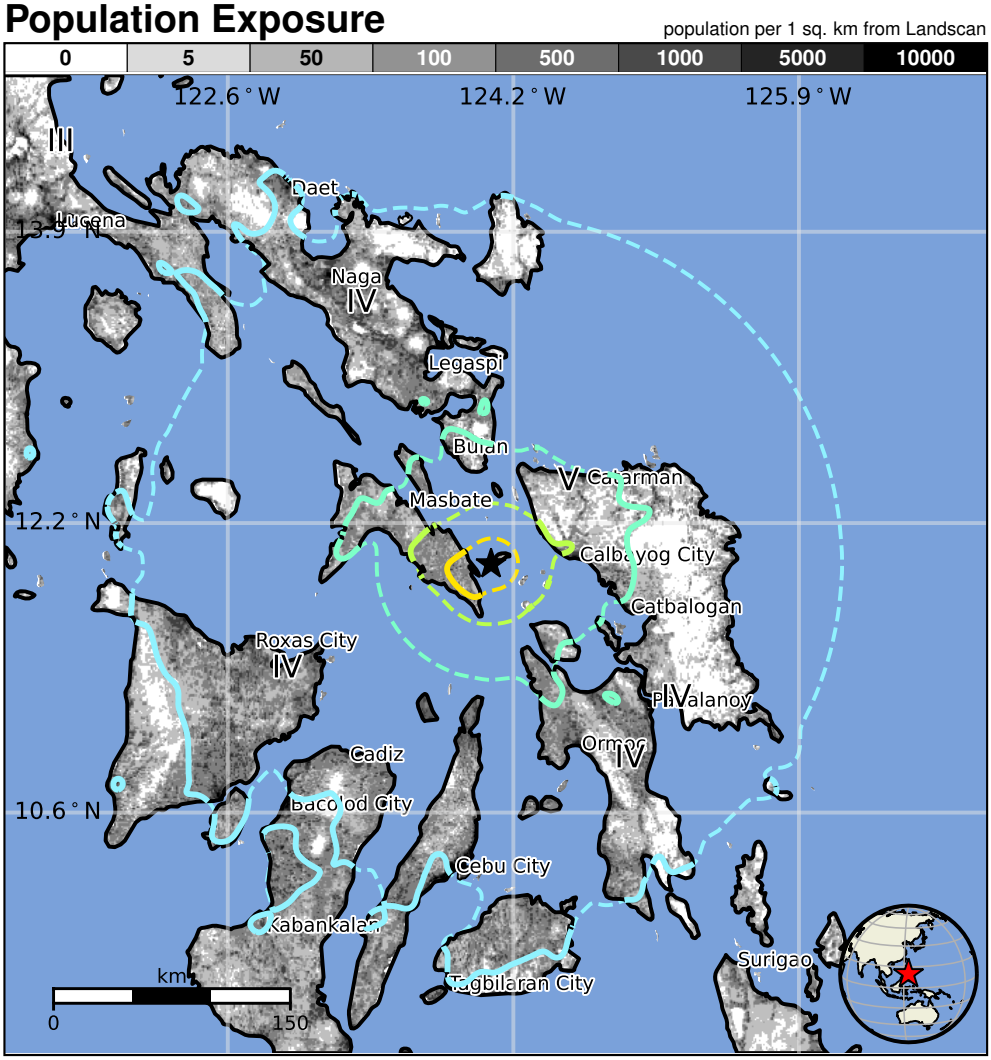


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	7,468k*	20,903k	2,562k	349k	120k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-12-15	91	4.8	VI(34k)	1
1990-02-08	256	6.7	VIII(96k)	1
1994-11-14	372	7.1	VIII(1,086k)	78

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Tagapul-an	<1k
VII	San Pedro	2k
VII	Cataingan	8k
VII	Pawican	3k
VII	Placer	6k
VII	Limbuhan	3k
IV	**Legaspi**	**179k**
IV	Iloilo	388k
IV	**Cebu City**	**799k**
III	**Bacolod City**	**455k**
III	Mansilingan	454k

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000bgbr#pager

Event ID: us6000bgbr